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## NOTICE OF ALLOWANCE AND FEE(S) DUE

77042

7590

05/05/2010

Perkins Coie LLP P.O. Box 1208 Seattle, WA 98111-1208

EXAMINER				
LE, MIRANDA				
ART UNIT	PAPER NUMBER			

2159 DATE MAILED: 05/05/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/800,163	03/12/2004	Vijay Deshmukh	67272-8062.US01	9062

TITLE OF INVENTION: METHOD AND APPARATUS FOR REPRESENTING FILE SYSTEM METADATA WITHIN A DATABASE FOR EFFICIENT QUERIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$0	\$0	\$1510	08/05/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Perkins Coie L P.O. Box 1208 Seattle, WA 981	LP	5/2010	I her State addr trans	Certifice  Certify that this F  Postal Service with  Ressed to the Mail St  mitted to the USPTO	cate of Mailing or Trans dee(s) Transmittal is being sufficient postage for fir op ISSUE FEE address (571) 273-2885, on the c	smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below.
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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	AT	TORNEY DOCKET NO.	CONFIRMATION NO.
10/800,163 FITLE OF INVENTION QUERIES	03/12/2004 : METHOD AND APP	ARATUS FOR REPRESI	Vijay Deshmukh ENTING FILE SYSTEM N	IETADATA WITHIN	67272-8062.US01 A DATABASE FOR EI	9062 FFICIENT
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nonprovisional	NO	\$1510	\$0	\$0	\$1510	08/05/2010
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
LE, MIR	RANDA	2159	707-825000			
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required.	ondence address (or Cha 3/122) attached. ication (or "Fee Address )2 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.11. Com	ange of Correspondence "Indication form ned. Use of a Customer  A TO BE PRINTED ON	2. For printing on the part (1) the names of up to or agents OR, alternativ (2) the name of a single registered attorney or a 2 registered patent attool listed, no name will be THE PATENT (print or type data will appear on the part of the part of the part (B) RESIDENCE: (CITY)	3 registered patent at ely, e firm (having as a megent) and the names on neys or agents. If no printed.  e) etent. If an assignee issignment.	or sidentified below, the d	locument has been filed for
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10/800,163	03/12/2004	Vijay Deshmukh	67272-8062.US01	9062	
77042 75	590 05/05/2010		EXAM	INER	
Perkins Coie LLP			LE, MIRANDA		
P.O. Box 1208			ART UNIT	PAPER NUMBER	
Seattle, WA 98111	-1208		2159		
			DATE MAILED: 05/05/2010		

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 211 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 211 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	10/800,163	DESHMUKH ET AL.	
Notice of Allowability	Examiner	Art Unit	
	MIDANDALE	2150	
	MIRANDA LE	2159	
The MAILING DATE of this communication apperature. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comi IGHTS. This application is	in this application. If not included nunication will be mailed in due course. <b>THI</b>	
1. $\square$ This communication is responsive to <u>RCE file 02/23/2010</u> .			
2. $\boxtimes$ The allowed claim(s) is/are $\underline{1-3,5,6,9-12,14,15,18,39}$ and	<u>40</u> .		
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority u</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>	e been received. e been received in Applica	ion No	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been receiv	ed in this national stage application from the	Э
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			
5. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Revi	ew ( PTO-948) attached	
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date			
<ul><li>(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date</li></ul>	s Amendment / Comment	or in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the			
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of	Informal Patent Application	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413),	
3. ☑ Information Disclosure Statements (PTO/SB/08),	Paper No 7.	o./Mail Date s Amendment/Comment	
Paper No./Mail Date <u>02/23/2010</u>			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ☑ Examiner  9. ☐ Other	s Statement of Reasons for Allowance	
/Miranda Le/	5. <u>C. Guioi</u>	<u> </u>	
Primary Examiner, Art Unit 2159			

## **DETAILED ACTION**

Page 2

This communication is responsive to a RCE amendment filed 02/23/2010.

### Statement of Reasons for Allowance

Claims 1-3, 5-6, 9-12, 14-15, 18, 39-40 are allowed.

The following is an examiner's statement of reasons for allowance.

The present invention is directed to a method for creating a file information database. A storage server having a directory structure is scanned or "file walk". Data regarding the directory structure is collected. Identification (ID) numbers are assigned to directories in the directory structure according to a depth first search (DFS) order. A table including the ID numbers is then written to store the results of a file walk so that they can easily be accessed and searched by an administrator.

All independent claims 1, 10, 39 recite, or similarly recite, in combination with the remaining elements, the methods/machine readable medium comprising:

- writing a data structure including the first ID number, the second ID number and a relation between the first directory and the second directory, wherein the relation indicates that the first directory is an immediate child of the second directory, and wherein the data structure is traversable based on the ID numbers to determine relationships between directories of the storage server;
- receiving a request to determine an immediate child or parent of a specified directory, wherein the specified directory is the first directory or the second directory:
- searching the data structure for any relation indicative that the specified directory is a child or a parent in said relation, wherein said searching produces as a result said relation between the first directory and the second directory; and
- determining the immediate child or parent of the specified directory based on said any relation.

The closest prior art, Lord et al (US 6,961,909), Perttunen et al (US 6,563,521), Watkins et al (US 6,457,017) show similar methods for providing a web browser display of a selected part of a tree-structured directory of hierarchically-related entities in a computer system. However, Lord et al, Perttunen et al, and Watkins et al., singularly or in combination, still fail to anticipate or render the above cited limitations obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Miranda Le whose telephone number is (571) 272-4112. The examiner can normally be reached on Monday through Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James K. Trujillo, can be reached at (571) 272-3677. The fax number to this Art Unit is 571-273-8300.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Application/Control Number: 10/800,163 Page 4

Art Unit: 2159

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Miranda Le/ Primary Examiner, Art Unit 2159 04/09/2010